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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,482	03/15/2004	Ramakrishna S. Budampati	H0005509 (256.193US1)	9303
128 7590 04/25/2008 HONEYWELL INTERNATIONAL INC. 101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245			EXAMINER GONZALEZ, AMANCIO	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 04/25/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/800,482

**Applicant(s)**

BUDAMPATI, RAMAKRISHNA S.

**Examiner**

AMANCIO GONZALEZ

**Art Unit**

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

In view of the Appeal Brief filed on 01/29/2008, PROSECUTION IS HEREBY REOPENED. New ground of rejection applied as set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Charles N. Appiah/

Supervisory Patent Examiner, Art Unit 2617

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 6, 9, 10, 13, and 15-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Oestreich (US 6445910 B1), hereafter "Oestreich."

Consider claim 1, Oestreich discloses a wireless network comprising multiple first wireless nodes **MS** that transmit signals (see figs. 1, col. 3 lines 64-67). Oestreich discloses multiple independent infrastructure nodes **BS1**, **BS2**, **BS3** that receive the transmitted signals, wherein at least two infrastructure nodes **BS1** and **BS2** receive a transmitted signal **e1** and **e2** from a single first wireless node **MS** (see figs. 1 and 3, col. 4 lines 18-27, col. 5 lines 50-55). Oestreich discloses a module **AE** that combines at least two of the signals **de1** and **de2** received at the multiple independent infrastructure nodes **BS1** and **BS2** to estimate the signal transmitted by the single first wireless node **MS** (see fig. 1, col. 4 lines 27-37, col. 6 lines 1-12).

Claims 10 and 16-19 address the same subject matter as claim 1, therefore same rejection applies.

Consider claims 2 and 20, Oestreich teaches claims 1 and 19 above, and further Oestreich a central controller BSC (see fig. 1 col. 4 lines 30-32).

Consider claims 6, 13, 15, and 21 Oestreich teaches claims 1, 10, 13, and 19 above respectively and further teaches diversity techniques (see the title, abstract, col.1 lines 8-9 and 59-64).

Consider claim 9, Oestreich teaches claim 1 above and further teaches signal combination (see col. 4 lines 27-37).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 3, 4, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oestreich (US 6445910 B1), hereafter "Oestreich," in view of Ziv et al. (US 20010018347 A1), hereafter "Ziv."

Consider claims 3, 4, 11, and 12, Oestreich teaches claims 1, 2, and 10 above respectively, further showing connection of infrastructure nodes BS1, BS2, BS3 to the central controller BSC (see figs. 1 and 3, col. 6 lines 1-6), but does not particularly refer to said connection as hardwired or wireless. Ziv teaches hardwire and wireless connection between infrastructure nodes as BS1 and BS2 and the BSC (see par. 0023, fig. 2). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Oestreich and have it describe hardwire

and wireless connection between infrastructure nodes as BS1 and BS2 and the BSC, thereby applying a connection type well known in the art of communications systems.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oestreich (US 6445910 B1), hereafter "Oestreich" in view of Partyka (US Pat 6058137), hereafter "Partyka".

Consider claim 5, Oestreich teaches claim 1 above, but does not show sensors associated with transmission of sensed parameters. Partyka discloses sensors associated with transmission of sensed parameters (see Partyka: Abstract; col. 1 lines 5-10; col. 3 lines 40-53). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Oestreich and have it include sensors associated with transmission of sensed parameters, as taught by Partyka, thereby providing synchronization means among the various transmitters and additionally gaining control on the power consumption of battery operated transmitters, as discussed by Partyka (see col. 3 lines 48-53).

7. Claims 7, 8, 14, 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oestreich (US 6445910 B1), hereafter "Oestreich" in view of Smee et al. (US Pat 6990137), hereafter "Smee".

Consider claims 7, 14, and 22, Oestreich teaches claims 6, 13, and 21 above, but does explicitly show channel coefficients for combining signals. Smee discloses channel coefficients for combining signals (see Smee: Abstract; col. 5 lines 47-56; col.

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14 lines 30-53). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Oestreich and have it include channel coefficients for combining signals, as taught by Smee, thereby providing a method for determining weight parameters to recombine diversity received signal in a wireless communication system.

Consider claims 8 and 23, Oestreich, as modified by Smee, teaches claims 7 and 22 above respectively, and Oestreich further teaches diversity techniques (see Oestreich: the title, abstract, col.1 lines 8-9 and 59-64).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Hand-delivered responses** should be brought to

Customer Service Window  
Randolph Building  
401 Delaney Street  
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amancio Gonzalez, whose telephone number is (571) 270-1106. The Examiner can normally be reached on Monday-Thursday from 8:00 am to 5:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Charles Appiah, can be reached at (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

AG/ag

April 24, 2008

/Charles N. Appiah/  
Supervisory Patent Examiner, Art Unit 2617